

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



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CALIBRATION LABORATORIES

NVLAP LAB CODE 200400-0

DEKA SCALE, INC., SCALES AND BALANCES

1144 Expressway Drive South

Toledo, OH 43608

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NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

MECHANICAL

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (\pm)^{note 1}</i>	<i>Remarks</i>
25 lb	0.068 g	Modified Substitution
50 lb	0.183 g	Modified Substitution
500 lb	4.840 g	Modified Substitution
1,000 lb	5.227 g	Modified Substitution

June 30, 2005

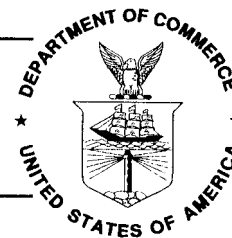
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A handwritten signature in black ink, appearing to read "William R. Muhl".

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DEKA SCALE, INC., SCALES AND BALANCES

NVLAP Code: 20/M08

Scales

Class I^{note 1}

<i>Range</i>	<i>Readability</i>	<i>Minimum Tested Capacity</i> ^{note 2}	<i>Best Uncertainty (±)</i> ^{notes 3,5}	<i>Remarks</i> ^{note 4}
0-250 mg	0.1 mg	100%	0.15 mg	ASTM 1

Class II^{note 1}

<i>Range</i>	<i>Readability</i>	<i>Minimum Tested Capacity</i> ^{note 2}	<i>Best Uncertainty (±)</i> ^{notes 3,5}	<i>Remarks</i> ^{note 4}
0-100 g	1.0 mg	100%	0.58 mg	ASTM 2
0-200 g	2.0 mg	100%	1.2 mg	ASTM 2
0-500 g	5.0 mg	100%	2.9 mg	ASTM 2
0-1000 g	10.0 mg	100%	5.8 mg	ASTM 2
0-10,000 g	0.1 g	100%	58 mg	ASTM 2
0-32,000 g	0.5 g	100%	289 mg	ASTM 2
0-64,000 g	1.0 g	100%	578 mg	ASTM 2

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Class III^{note 1}

<i>Range</i>	<i>Readability</i>	<i>Minimum Tested Capacity^{note 2}</i>	<i>Best Uncertainty (\pm)^{notes 3,5}</i>	<i>Remarks^{note 4}</i>
0-5 lb	0.0005 lb	100%	0.00029 lb	NIST Class F
0-10 lb	0.001 lb	100%	0.00057 lb	NIST Class F
0-20 lb	0.002 lb	100%	0.0012 lb	NIST Class F
0-50 lb	0.005 lb	100%	0.0029 lb	NIST Class F
0-100 lb	0.01 lb	100%	0.0058 lb	NIST Class F
0-200 lb	0.02 lb	100%	0.012 lb	NIST Class F
0-500 lb	0.05 lb	75%	0.029 lb	NIST Class F
0-1,000 lb	0.1 lb	75%	0.058 lb	NIST Class F
0-5,000 lb	0.5 lb	50%	0.29 lb	NIST Class F
0-10,000 lb	1.0 lb	50%	0.58 lb	NIST Class F
0-20,000 lb	2.0 lb	50%	1.2 lb	NIST Class F
0-40,000 lb	5.0 lb	12.5%	2.9 lb	NIST Class F
		50%	5.9 lb	By Substitution

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Class III^{note 1}

Range	Readability	Minimum Tested Capacity ^{note 2}	Best Uncertainty (\pm) ^{notes 3,5}	Remarks ^{note 4}
0-50,000 lb	5.0 lb	12.5%	2.9 lb	NIST Class F By Substitution
		50%	10.6 lb	NIST Class F By Substitution
0-100,000 lb	10.0 lb	12.5%	5.8 lb	NIST Class F By Substitution
		25%	11.7 lb	NIST Class F By Substitution
0-200,000 lb	20.0 lb	12.5%	11.6 lb	NIST Class F By Substitution
		25%	15.4 lb	NIST Class F By Substitution
0-400,000 lb	50.0 lb	30,000 lb	28.9 lb	Railway Track Scales ^{note 6}

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Class III^{note 1}

Range	Readability	Minimum Tested Capacity ^{note 2}	Best Uncertainty (\pm) ^{notes 3,5}	Remarks ^{note 4}
0-100 lb	0.01 lb	100%	0.06 lb	NIST Class F
0-500 lb	0.5 lb	75%	.29 lb	NIST Class F
0-5,000 lb	5.0 lb	50%	2.9 lb	NIST Class F
0-10,000 lb	50.0 lb	50%	29.0 lb	NIST Class F

1. Scale classifications determined by NIST Handbook 44, Scales Code, Table 3.
2. Minimum tested capacity required by NIST Handbook 44, Table 4.
3. Represents an expanded uncertainty using a coverage factor, $k=2$.
4. Class weights used. Suitable weight classifications determined by OIML R111, 1994, ASTM E 617-97, and NIST Handbook 105-1.
5. Uncertainty reported at capacity; full uncertainty analysis on file.
6. NIST Handbook 44, N.3.1.2 Interim Approval- A test weight load of not less than 13,500 kg (30,000 lb) and a strain-load test up to at least 25% of scale capacity may be used to return a scale into service following repairs.

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